

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 7,436,175 B2
 APPLICATION NO. : 10/538,361
 ISSUE DATE : October 14, 2008
 INVENTOR(S) : Charles L. Epstein et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page,

Item (75) **Inventors:**

After “Jeremy Magland,” delete “North Wales,” and insert -- Lansdale, --.

Column 2,

Lines 13-14, delete “ $b_{\text{eff}}(f,t)=(f_1(t),\omega_2(t),\gamma^{-1}f).$ ” and insert -- $b_{\text{eff}}(f;t)=(\omega_1(t),\omega_2(t),\gamma^{-1}f).$ (5) --.

Column 3,

Lines 13-16, delete “ $\sigma_1=\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$, $\sigma_2=\begin{bmatrix} 0 & -i \\ -i & 0 \end{bmatrix}$, $\sigma_3=\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$. (11)”

and insert -- $\sigma_1=\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$, $\sigma_2=\begin{bmatrix} 0 & -i \\ t & 0 \end{bmatrix}$, $\sigma_3=\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$. (11) --.

Column 4,

Line 11, delete “ $\{\xi: \text{Im}>0\}$ ” and insert -- $\{\xi: \text{Im}\xi>0\}$ --.

Column 5,

Line 14, delete “win” and insert -- will --.

Column 6,

Line 14, after “vice-versa” insert -- . --.

Line 22, delete “arefree” and insert -- are free --.

Line 36, delete “ $e^{i\phi(\xi)}_{r(\xi)}$ ” and insert -- $e^{i\phi(\xi)}r(\xi)$ --.

Column 8,

Line 22, delete “ $\xi_j\delta(t-j\Delta)$ ” and insert -- $\mu_j\delta(t-j\Delta)$ --.

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Column 10,

Line 49, delete “62=0.1” and insert -- $\delta_2=0.1$ --.
 Line 51, delete “62=0.01” and insert -- $\delta_2=0.01$ --.
 Line 54, delete “82=0.1” and insert -- $\delta_2=0.1$ --.
 Line 56, delete “82=0.01” and insert -- $\delta_2=0.01$ --.

Column 11,

Line 54, delete “(r(ξ),” and insert -- {r(ξ), --.

Column 12,

Line 34, delete “t \in R,” and insert -- $\xi \in \mathbb{R}$, --.

Column 13,

Line 48, delete “norming” and insert -- norming --.
 Line 55, delete “coefficie” and insert -- coefficients and left --.

Column 18,

Line 61, delete “by:” and insert -- be the projections defined by --.

Column 19,

Line 8, delete “H₋:L²” and insert -- H₋:L²(S¹)→H⁻(S¹) be the projections defined by --.
 Line 60, delete “If $\in^{D,+}$ (S¹),” and insert -- If $g \in \tilde{H}^{+}(S^1)$, --.

Column 20,

Line 19, delete “had” and insert -- hard --.

Column 21,

Line 20, delete “t many” and insert -- that a has finitely many --.

Column 22,

Line 51, after “r $\in L^\infty(S^1)$,” insert -- $\zeta_j \in \mathbb{D} \setminus \{0\}$, --.

Column 23,

Line 25, delete “pulse a” and insert -- pulse Ω --.
 Lines 66-67, delete “profileagrees” and insert -- profile agrees --.

Column 24,

Line 6, delete “step A” and insert -- step Δ --.
 Line 55, delete “pulse ω ” and insert -- pulse Ω --.

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Column 26,

Line 36, after “error” insert -- δ_1 . --.

Column 28,

Line 7, delete “ $U_{\pm j} := I_{\pm j} P_{\pm j \Delta}$.” and insert -- $U_{\pm j} := T_{\pm j} P_{\pm j \Delta}$. --.

Line 45, delete “ext” and insert -- extend --.

Column 32,

Line 38, after “data” insert -- . --.

Column 34,

Line 34, delete “ γ the” and insert -- γ_i along with the --.

Column 35,

Lines 9-12, delete “

$$-y^*_{j-1} = \frac{\Im(s_{j-1} A_{-,j-1})(0)}{\tilde{A}_{-,j-1}(0) - \Im(s_{j-1} E_{-,j-1})(0)}. \quad (111) \text{” and insert --}$$

$$-y^*_{j-1} = \frac{\Im(s_{j-1} A_{-,j-1})(0)}{\tilde{A}_{-,j-1}(0) - \Im(s_{j-1} B_{-,j-1})(0)}. \quad (111) \text{ --.}$$

Line 15, delete “T recursion” and insert -- The recursion --.

Line 62, after “are” insert -- the data --.

Column 36,

Lines 30-31, delete “ $f(n) := \Im(r_j)(n+j)$ for $n+j < 0$.” and insert -- $f(n) := \Im(r_j)(n+j)$ for $n+j < 0$. --.

Column 38,

Line 44, delete “typermine algorithe” and insert -- type algorithm. Rather one would specify the --.

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Column 41,
Lines 41-42, after “approximation” insert -- . --.

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